Work	Orde	er ID	115508
TT VII	VI UI		1 1 2 2 2 3 3 7 4 7 6 7

## \*115508\*

Page 1 April-02-14 11:14:46 AM Item ID: D3391-023 Accept \*N900040100\* Setup Start **Revision ID:** Stop **Item Name:** Mid Tube Assembly Start Date: 4/02/14 Start Qty: 1.00 **Cust Item ID:** Required Date: 4/16/14 **Reg'd Qty:** 1.00 **Customer:** Reference: Run Start Process Plan: ML5 Date: 14-04-07 Tooling: **Approvals:** Date: Stop QC: \* Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. **Work Center ID Description Run Hours** Code **Qty** Number **Qty** Stamp **Draw Nbr Revision Nbr** D3391 Ι 100 0.00Skidtubes \*100\* Skidtubes Memo Skidtubes 1-Cut tube to finish length as per Dwg D3391 2-Drill pilot holes using DT8796 (Do not drill "B" holes) and drill only 1 fwd saddle hole on one side only as per Dwg D3391 3-Open saddles and GHW holes to Ø0.375" exept for fwd saddle hole of detail 4-Remove .030" from Fwd indexing Ridge as per Dwg D3391. 5-Remove indexing ridge on Fwd & Aft end of skidtube as per Dwg D3391 6-Deburr 7-Drill #30 pilot holes using wearplate Jig DT8217 Identify Ø0.250" holes with paint marker. \*\*\*DO NOT DRILL HOLES #3-19-20 FROM FWD END OF JIG 8-Open wearplate holes of D3391-023 assembly detail section G-G to Ø0.250" (10 holes) as per Dwg D3391 9-Open wearplate holes of D3391-023 assembly detail section H-H to Ø0.297" (20 holes) as per Dwg D3391 \*\*\*DO NOT OPEN 2 MOST FWD WEARPLATE HOLES\*\*\*

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Reject

Number

Insp.

Stamp

\*115508\* April-02-14 11:14:46 AM Item ID: D3391-023 Accept \*N900040100\* **Setup Start Revision ID:** Stop Mid Tube Assembly Item Name: **Start Date:** 4/02/14 **Start Oty:** 1.00 **Cust Item ID:** Required Date: 4/16/14 **Req'd Qty:** 1.00 **Customer:** Reference: Run Start **Approvals:** Process Plan: Date: **Tooling:** Date: Stop SPC (Y/N): Date: Date: Sequence ID/ Operation Set Up/ **Tool ID** Tool # Plan Reject Accept Work Center ID \*Description **Run Hours** Code Qty **Qty** DGC 14-4-21 10-Open .375" holes to .438" \*\*\*do not open fwd saddle holes\*\*\* 11-Locate D3391-021 in D3391-023 at 9.00" (see view z-z) 12- Transfer drill one fwd saddle hole only to .188" dia, transfer drill all remaining fwd saddle holes using DT 8149 locating from previusly drill .188" dia hole, using t-pins and clicos to ensure perfect allingment, open up previusly tranfer drilled pilot holes in D3391-023/-021 to 0.438" dia. in D3391-021 D3391-021 BATCH: //45// 13- Using DT8217, locating from two previously drilled holes, drill remaining wearplate holes into D3391-021. 14- Locating from two fwd wearplate holes in D3391-023 drill remaining 6 wearplte holes in D3391-021 using DT8937 15- Open 10 wearplate holes in D3391-021 to 0.297" dia. 16- insert D3391-021 into D3391-23 17- insert T-pins into first and third fwd saddle holes 18- ON FIRST SIDE ONLY drill out 2nd and forth fwd saddles holes to 0.500" as per

19- ON 2ND SIDE ONLY ream out 2nd and forth saddle hole to 0.499".

at aft end.

20-Deburr and blow out all chips from inside tube, scribe batch # in D3391-023

14-4-24

Work Order ID 115508  April-02-14 11:14:46 AM									
Item ID:	D3391-023								
Revision ID:									
Item Name:	Mid Tube As	sembly							
Start Date:	4/02/14	Start Qty: 1.00							
Required Date:	4/16/14	Reg'd Qty: 1.00							

\*115508\*

Accept

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Page 3

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Setup Start \*NS1\*

Stop \*NS2\*

Cust Item ID:

Customer:

Reference:										
Approvals: Process P		an:	Date:	Tooling: SPC (Y/N):		Date:			rt *N	R1* R2*
Sequence ID/ Work Center II	D	Operation Description	**1188*****	Set Up/ Run Hours	Tool ID	Tool # Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
110		QC5- Inspect part comp	leteness to step on W/O	0.00					ı	DAS
*110* QC Quality Control		Мето		0.00				14-04-23	2	9 9- <del>89</del>
120 *120* HandFinish Hand Finishing		Chemical Conversion C  Memo	oat per QSI005 4.1	0.00	DGLJU	M	4-27	8		-

130

QC7-Inspect Chemical Conversion Coat

0.00

\*1.30\*

Memo

0.00

1 D 02/4/04/28

Quality Control

Work Order ID 115508  April-02-14 11:14:46 AM				*115					Page			
Item ID: Revision ID: Item Name:	D3391-023 Mid Tube As	sembly		Accept	*N900040100*					Start Stop	171	S1*
Start Date: Required Date Reference:	4/02/14 : 4/16/14	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:						
Approvals:	Process Pla	Process Plan:		Tooling:	Date:			Run	Start			
	QC:		Date:	SPC (Y/N):		ate:				Stop	*N	R2*
Sequence ID/ Work Center 1 140	ID	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accep Qty	t Rej Qty		Reject Number	Insp. Stamp
*140* Skidtubes		Skidtubes <b>Memo</b>		0.00			,					
Skidtubęs		1-Open float 2-C'sink floa 3- Prepare tu 4-Bond web Adhere for 1 A/R Sikaflex batch#:	exp: 14/10/05 3026	g	>	- DC	14 /2	4/28	7			*

QC5- Inspect part completeness to step on W/O

0.00

\*150\*

0.00

1 8 1404-30

Memo Quality Control

Skidtubes

QC10- Inspect visual per OSI004- ground welds

1-Weld crossbolt spacer as per dwg D3391/& QSI 004 2-grind weld flush — D. ## 30

\*170\* QC

Memo

**Quality Control** 

180

QC5- Inspect part completeness to step on W/O

\*120\*

QC

Memo

**Quality Control** 

Page 5

Insp.

Work Order ID 115500	502*					
Work Order ID 115508 *1 15	). )( )( )	, Pa <sub>į</sub>				
Item ID: D3391-023 Accept Revision ID:	*N900040100*	Setup	Start	*N	S1*	
Item Name: Mid Tube Assembly			Stop	*N:	S2*	
Start Date:       4/02/14       Start Qty:       1.00       *1*         Required Date:       4/16/14       Req'd Qty:       1.00       *1*	Cust Item ID: Customer:					
Reference:		Run	G			
Approvals: Process Plan: Date: Tooling:	: Date:		Start	~1\(\)	R1*	
QC: Date: SPC (Y/N):	Date:		Stop	*N	R2*	
Sequence ID/ Operation Set Up/ Work Center ID Description Run Hours	Tool ID Tool # Plan Ac Code Qi	ccept Rej y Qty		Reject Number	Insp. Stamp	
185 Pressure Wash per QSI005 4.3 0.00			А			
*1 Q 5 * HandFinish Memo 0.00 Hand Finishing AND REALODINE AS PER PAR09-043	_1	<i></i>	VG	14-5:	26	

\*190\*

Powdercoat

Powder Coating

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

Memo START TIME: OVEN TEMPERATURE: FINISH TIME:

200

Memo

QC3- Inspect Part Finish

0.00

0.00

0.00

0.00

Page 6

1 6 H.7-H 3588

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Quality Control

II I														
Work Ord April-02-14 11		15508		*115508*								Page 7		
Item ID: Revision ID: Item Name: Start Date: Required Date:	D3391-023  Mid Tube As  4/02/14  4/16/14	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*	Accept		J900 Cust Item I		100	ገ*	-	Start Stop	1 4	S1* S2*	
Reference: Approvals:	Process Pl QC:	an:	Date:	Tooling:	J):		ate:				Start Stop		R1* R <i>2</i> *	
Sequence ID/ Work Center II 230 *230* HandFinish Hand Finishing		Operation Description  HandFinishing  Memo 1- press fit 1	D3591-1 spacers using D'erts as per Dwg	Set Up Run H 0.00	o/ (ours	Tool ID	Tool#	Plan Code	Accep Qty	t Reject		Reject Number	Insp. Stamp	
240 */240* QC Quality Control		QC5- Inspect part comp  Memo	leteness to step on W/O	0.00	DAS 27 989 M 1 1 1					· 				

\*250\*

Packaging

Identify as per dwg & Stock Location: W/O

0.00

D412-742-043 B115491 IX & SID 14/07/15

Memo

0.00

Packaging

Work O	rder	ID	115508
April-02-14	11:14	:46 A	M

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Quality Control

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April-02-14 11:				^115508^									
Item ID: Revision ID: Item Name:	D3391-023 Mid Tube As	ssembly		Accept	*N900	<u>040</u>	100	<b>)*</b> s	Setup	Start Stop	17.	S1* S2*	
Start Date: Required Date: Reference:	4/02/14 4/16/14	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:							
Approvals:	Process Pl	an:	Date:	Tooling: SPC (Y/N):		ate:		R		Start Stop		R1* R2*	
Sequence ID/ Work Center II 260	<b>D</b>	Operation Description QC21- Final Inspection	Work Order Release	Set Up/ Run Hours 0.00	Tool ID	Tool#	Plan Code	Accept Qty	Rejec Qty		Reject Number	Insp. Stamp	
*260*		Memo		0.00				MU	5 14.	FO-	-16		

Page 1

Work Order ID: 115508

\*115508\*

Parent Item:

D3391-023

\*D3391-023\*

Parent Item Name: Mid Tube Assembly

**Start Date:** 4/02/14

Required Date: 4/16/14

Start Qty: 1.00

Required Oty: 1.00

Comments:

IPP A05.10.20New Issue

KJ/EC EC

IPP B06.02.10ECN773 dwg rev.D IPP C 07.03.20 rev F dwg

EC

IPP D 07.03.28 re-format EC

IPP E 07.10.31 ecn 1053P

EC

IPP Rev:F ECN 1056 07-11-13 DD

verified by: EC

IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC

IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

IPP Rev: I 08-11-13 Removed steps per w/o, OC KJ verified by: ec IPP Rev:J add in seq 140 expire date &b# sikaflex DD 10.02.17 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2500-1-100		Manufactured	No			100	Each	83.0000	1	1			***
*D2500-1	-100*								**				
				Location	<u>.</u>	Loc	Oty	Loc Code					
				HALL			83				_		
				. ,	82373 86065		22 61		_	S	DOC	14	4-21
D3389-1		Manufactured	No			140	Each	8.0000	1	1	- <del>1</del>		i =1
*D3389-13	<b>k</b>								**	0014	04/28		
				<u>Location</u> LG	B11949	Loc	<u>Oty</u> 8	Loc Code		Ø '	/		
				LO	113057		8				-		
D3681-1		Manufactured	No			160	Each	234.0000	5	5	_		
*D3681-13	*								**		BEI	4-0	4-30
				Location	1	Loc	Oty	Loc Code					
				LG			168		_		_		
				Q.	114884		168		_	<u>5</u>			

109109

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Page 2

April-02-14 11:15:00 AM

Work Order ID: 115508

\*115508\*

Parent Item:

D3391-023

\*D3391-023\*

Parent Item Name: Mid Tube Assembly

**Start Date:** 4/02/14

Required Date: 4/16/14

Start Qty: 1.00

Required Qty: 1.00

D3591-1

Manufactured

No

Each

88.0000

2

\*D3591-1\*

Bushing

\*\*

230

Loc Qty Location Loc Code FG 10 1312146 10 92873 FP001 78 100699 5 107918 36 109107 37

ALS4-1032-130

AELS4-1032-130 Purchased

No

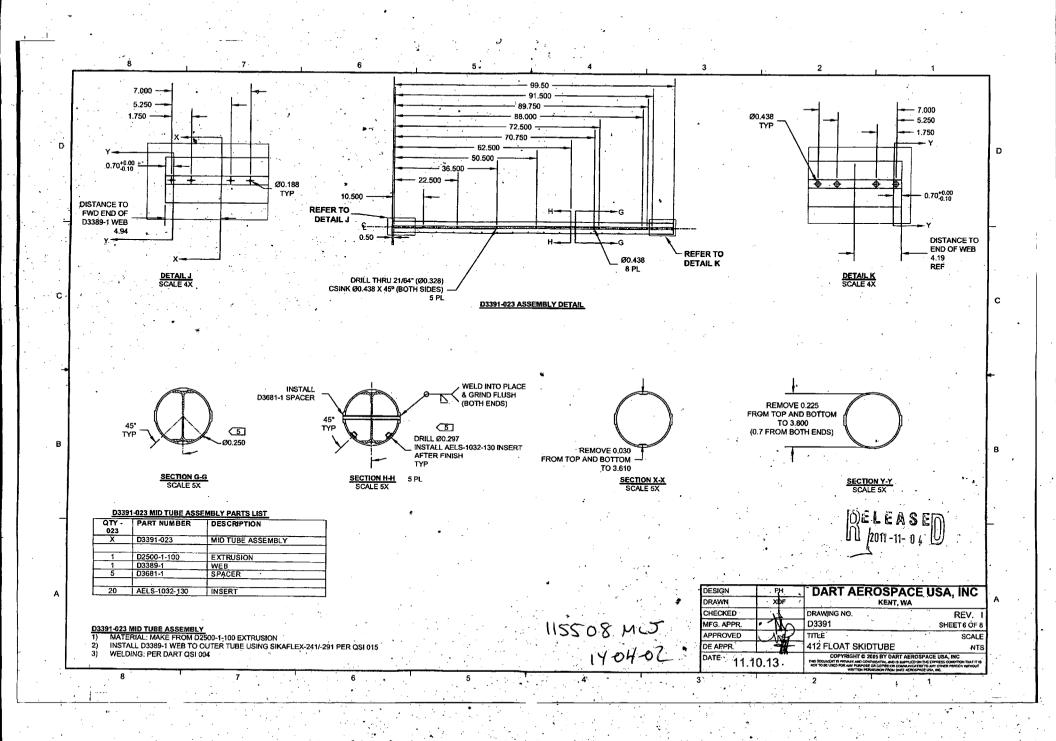
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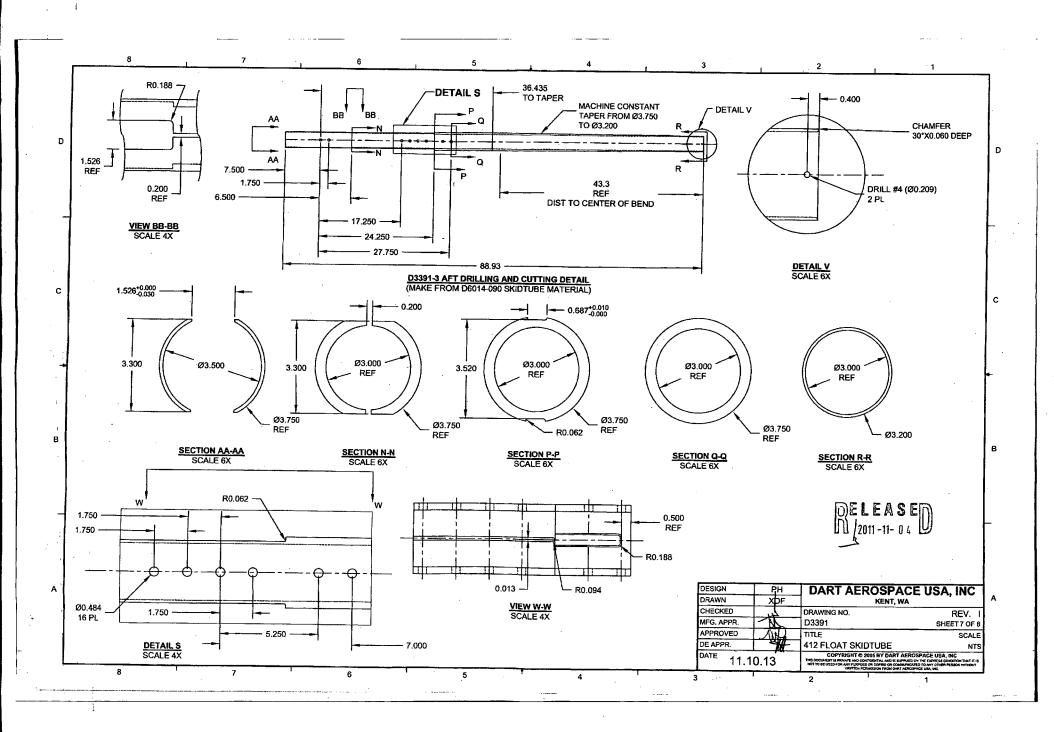
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\*AI S4-1032-130\*

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FP001		9832	•	
	M128649	9832		X50
ST279	<b>.</b> == <del></del>	48		
	M128211	48		
st510		57		
	M126109	57		





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